EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER

63302924

PUBLICATION DATE

09-12-88

APPLICATION DATE

04-06-87

APPLICATION NUMBER

62140698

APPLICANT: EBARA CORP;

INVENTOR: NAKAJIMA YOSHIO;

INT.CL.

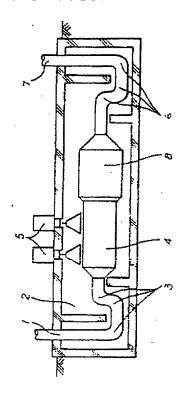
B01D 53/34 B01D 53/32

TITLE

: ELECTRON BEAM IRRADIATION

TREATMENT DEVICE FOR EXHAUST

GAS



ABSTRACT: PURPOSE: To efficiently desulfurize and denitrate by receiving a reactor having the space for projecting electron beam and an electrostatic precipitator directly connected to the outlet of the reactor in a radiation shelter wall, and providing a duct having ≥2 bent parts to the outlet of the electrostatic precipitator.

> CONSTITUTION: An exhaust gas containing NOX, SOX is sent to the reactor 4 provided in an irradiation chamber 2 through an exhaust gas introducing pipe 1 and irradiated with the electron beam sent from an electron beam accelerator 5, and the fine powdery solids of ammonium sulfate, ammonium nitrate, etc., are produced in the gas. Then the exhaust gas is sent into the electrostatic precipitator 8 directly connected to the reactor 4 to remove the produced fine powder, and is discharged through an exhaust gas duct 7 having ≥2 bent parts 6.

COPYRIGHT: (C)1988, JPO& Japio